In the Specification:

Please amend the specification as shown:

Please delete the paragraph on page 6, lines 2-6, and replace it with the following paragraph:

Figure 1. (A) Secondary structure of the "8-17" DNAzyme system that consists of an enzyme strand (17E, SEQ ID NO: 1) and a substrate strand (17DS, SEQ ID NO: 10). (B) Cleavage of 17DS by 17E in the presence of Pb(II). (C) Schematics of DNAzyme-directed assembly of gold particles and their application as biosensors for metal ions such as Pb(II). The oligonucleotide functionalized to the gold nanoparticle (DNA_{Au)} is disclosed as SEQ ID NO: 11, while the 17DS substrate strand extended with nucleotides complimentary to the particles (Sub_{Au}) is disclosed as SEQ ID NO:12.

Please delete the paragraph on page 6, lines 7-9, and replace it with the following paragraph:

Figure 2. (A) The primary and the proposed secondary structure of the adenosine aptazyme built on the "8-17" DNAzyme platform. The proposed secondary substrate is disclosed as SEQ ID NO: 13. The aptazyme sequence is disclosed as SEQ ID NOS 14 (left) and 15 (right). (B) Schematic representation of the colorimetric detection of adenosine.

Please delete the paragraph on page 6, line 26, to page 7, line 1, and replace it with the following paragraph:

Figure 8. A new design of an aptazyme-based adenosine sensor (**SEQ ID NO: 16**). Reaction A: formation of blue aggregates in the absence of adenosine. Reaction B: the substrate is cleaved in the presence of adenosine. Reaction C: the cleaved substrate cannot assemble gold particles, yielding red-colored, separated particles.